

# Plant Document Analysis

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## Specifications for Evaluation of Nozzle Load Analysis:

Specification 1: Pressure (Kg/Cm<sup>2</sup> g) for various utilities and systems including raw water, sea water, desalinated water, cooling water, demineralized water, boiler feed water (HHP, HP, MP, LP), potable water, fire water system, steam (HHP, HP, MP, LP), condensate (HP, MP, LP), fuel gas, natural gas, PSA tail gas, syn gas, fuel oil, plant air, breathing air, instrument air, nitrogen system (high pressure, low pressure, LLP, medium pressure dilute), and electricity (HT level, LT level, electrical control supply, small power and lighting supply, UPS level, switchgear).

Specification 2: Temperature (°C) for various utilities and systems as listed in Specification 1.

Specification 3: Design pressures and temperatures for various utilities and systems as listed in Specification 1.

Specification 4: Normal operating pressures and temperatures for various utilities and systems as listed in Specification 1.

Specification 5: Maximum and minimum operating pressures and temperatures for various utilities and systems as listed in Specification 1.

Specification 6: Earthing specifications for electrical systems including HT level, LT level, electrical control supply, small power and lighting supply, UPS level, and switchgear.

Specification 7: Voltage and frequency specifications for electrical systems including HT level, LT level, electrical control supply, small power and lighting supply, UPS level, and switchgear.

Specification 8: Phase and earthing details for electrical systems including HT level, LT level, electrical control supply, small power and lighting supply, UPS level, and switchgear.

## Inputs Required from Client:

Input 1: Finalized utility and system parameters including pressures, temperatures, and electrical specifications as per the specifications listed.

Input 2: Detailed layout and geographic locations of utility sources, distribution networks, and destination points for accurate pressure and temperature determination.

Input 3: Specific requirements or constraints related to the nozzle load analysis, including any special considerations for critical equipment or systems.

## **Additional Requirements from Client:**

Requirement 1: Confirmation or updates on the preliminary battery limit information provided for various utilities and systems to ensure accuracy in the nozzle load analysis.

Requirement 2: Details on any integration with existing facilities or systems that may affect the nozzle load analysis, including any modifications or additional requirements.